

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER <b>06.01.09.USP</b>
INTERNATIONAL APPLICATION NO. <b>PCT/JP2004/003977</b>		INTERNATIONAL FILING DATE <b>23 March 2004</b>
TITLE OF INVENTION <b>Method of Designing and Manufacturing Artificial Joint Stem with use of Composite Materials</b>		PRIORITY DATE CLAIMED <b>23 March 2004</b>
APPLICANT(S) FOR DO/EO/US <b>Shunichi Bando, Marau Zako</b>		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).           <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> <p><b>Items 11 to 20 below concern document(s) or information included:</b></p> <ol style="list-style-type: none"> <li>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input type="checkbox"/> A preliminary amendment.</li> <li>14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input checked="" type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>20. <input checked="" type="checkbox"/> Other items or information: <b>A copy of the amendment to the International application, both in Japanese and in English (translated)</b></li> </ol>		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)		INTERNATIONAL APPLICATION NO. <b>PCT/JP2004/002671</b>		ATTORNEY'S DOCKET NUMBER <b>06.01.08.USP</b>	
21. The following fees are submitted:					
<input checked="" type="checkbox"/> a) Basic national fee.....				<b>\$300.00</b>	\$ 300.00
<input checked="" type="checkbox"/> b) Examination fee.....				<b>\$200.00</b>	\$ 200.00
<input checked="" type="checkbox"/> c) Search fee.....				<b>\$500.00</b>	\$ 500.00
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$1000.00</b>	\$ 1000.00
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is <b>\$250</b> for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
75 - 100 =	/50 =		x <b>\$250.00</b>	\$ 0.00	
Surcharge of <b>\$130.00</b> for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	
CLAIMS		NUMBER FILED	NUMBER EXTRA	RATE	\$
Total claims		7 - 20 =	0	x <b>\$50.00</b>	\$ 0.00
Independent claims		1 - 3 =	0	x <b>\$200.00</b>	\$ 0.00
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ <b>\$360.00</b>	\$ 0.00	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$ 0.00	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$ 500.00	
<b>SUBTOTAL =</b>				\$ 500.00	
Processing fee of <b>\$130.00</b> for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	
<b>TOTAL NATIONAL FEE =</b>				\$ 500.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). <b>\$40.00</b> per property				\$	
<b>TOTAL FEES ENCLOSED =</b>				\$ 500.00	
				Amount to be refunded:	\$
				Amount to be charged:	\$ 500.00
a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>50,2069</u> . A duplicate copy of this sheet is enclosed. d. <input checked="" type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.					
<b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.					
SEND ALL CORRESPONDENCE TO:					
Apex Juris, PLLC Lake City Center, Suite 410 12360 Lake City Way Northeast Seattle, Washington 98125			/Tracy M Heims/ SIGNATURE Tracy M Heims NAME 53,010 REGISTRATION NUMBER		

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Shunichi Bando et al.

Filed: 09/21/2006

Attorney Dkt. No.: 06.01.09.USP

Title: Method of Designing and Manufacturing Artificial Joint Stem With Use Of  
Composite Materials

\*\*\*\*\*

NEW UNITED STATES PATENT APPLICATION  
UNDER 37 CFR 371

Hon. Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

September 21, 2006

Commissioner:

Please find enclosed a new application for filing with the United States Patent  
and Trademark Office. Enclosed are:

1. Specification
2. Claims
3. Abstract
4. Figures (20 pages)
5. ADS
6. Declaration
7. Assignment
8. Copy of PCT publication WO 2005/089675 A1
9. Copy of Japanese article 11 amendment to the PCT application
10. English translation of the article 11 amendment

Applicant submits the above documents to secure a filing date and will file a  
preliminary amendment later incorporating the changes made in the article 11  
amendment into the US application.

Please charge any fee deficiency or credit any overpayment with respect to this paper and or this application to Apex Juris Deposit Account No. 502069, **referencing docket number 06.01.09.USP.**

Respectfully submitted,

By: /Tracy M Heims/  
Tracy M. Heims  
Reg. No. 53,010

Apex Juris, pllc  
Lake City Center, Suite 410  
12360 Lake City Way Northeast  
Seattle, Washington, 98125  
Email: [tracy@apexjuris.com](mailto:tracy@apexjuris.com)  
Phone (206) 664-0314  
Fax (206) 664-0329